STIC Search Report
EIC 3700

STIC Database Tracking Number: 158052

TO:	From:
Glenn K Dawson **Location:** **Art Unit: 3731** **Friday, July 08, 2005** **Case Serial Number: 09/438676**	**Ethel Leslie** **Location: EIC 3700** **RND 8A34** **Phone: 571-272-5992** **Ethel.leslie@uspto.gov**

Search Notes

Glenn,

Attached is the completed search for the equine nasal dilator. I searched the inventors in the patent and non-patent literature and I have attached the results. I also did an extensive search on the requested topic in bibliographic and full-text databases. I could not find anything that met the specifications we discussed. I have attached the search strategies used for the searches performed.

If you have a moment, please fill out the attached STIC Feedback Form. If there is anything I can do to refine or revise this search, please let me know.

Sincerely,
Ethel Leslie

Access DB# 158052

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Glenn K. Dawson Examiner #: 69769 Date: 6·30·05
Art Unit: 3731 Phone Number ~~305~~ 571·272-1694 Serial Number: 09/838676
Mail Box and Bldg/Room Location: Rm. 6C-81 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): Edward Black James Chiapetta

Earliest Priority Filing Date: 04-1996

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

See attached method claims.

606/201

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STAFF USE ONLY	Type of Search		Vendors and cost where applicable	
Searcher: Shelley	NA Sequence (#)		STN	
Searcher Phone #: 25992	AA Sequence (#)		Dialog	
Searcher Location: EIC 3700	Structure (#)		Questel/Orbit	
Date Searcher Picked Up: 7/7/05	Bibliographic	✓	Dr.Link	
Date Completed: 7/8/05	Litigation		Lexis/Nexis	
Searcher Prep & Review Time:	Fulltext		Sequence Systems	
Clerical Prep Time:	Patent Family		WWW/Internet	
Online Time:	Other		Other (specify)	

PTO-1590 (8-01)

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Set     Items   Description
S1     488946   HORSE? ? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STAN-
              DARDBRED? OR (THOROUGH OR STANDARD?)()(BRED? ?) OR DOG? ? OR -
              COW? ? OR CAMEL? ? OR GRAYHOUND? OR GREYHOUND? OR (GRAY OR GR-
              EY)()HOUND?
S2    2156280   VESTIBUL?(2N)WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCI-
              SIVE?()BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA???
              OR PREMAXILLA??? OR BRIDG???
S3    8460654   SUPPORT??? OR AID OR AIDS OR AIDING OR AIDING OR BRACE? ? -
              OR BRACING OR HOLD???
S4   11533057   DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? -
              OR LARGE?
S5    2100262   OUTSIDE? OR OUTMOST OR OUTWARD OR OUTER? OR EXTERIOR? OR E-
              XTERNAL? OR SUPERFICIAL? OR SUPER()FICIAL?
S6    4410822   PY=2004:2005
S7    5432987   PY=2002:2003
S8    6157465   PY=2000:2001
S9    4497233   PY=1998:1999
S10   1659976   PY=1997
S11        64   S1(S)S2(S)S3(S)S4(S)S5
S12        26   S11 NOT S6:S10
S13        25   RD (unique items)
S14     50746   S2(5N)S4
S15       444   S14 (S) S1
S16       563   S2(5N)S4(5N)S5
S17         9   S16 (S) S1
S18     32430   S2(3N)S4
S19       123   S18(10N)S1
S20        41   S19 NOT S6:S10
S21        36   RD (unique items)
S22    503990   LUNG? ? OR PULMON? OR BREATH??? OR RESPIRAT??? OR VENTILAT-
              ??? OR INHAL????? OR EXHAL????? OR AIRFLOW? OR AIR()FLOW???
S23     24173   S22 (10N) S3
S24        52   S23 (S) S14
S25        32   S24 NOT S6:S10
S26        22   RD (unique items)
S27      3450   BREATH? ?()RIGHT? ? OR CLEAR()PASSAGE OR POWER()STRIP? ?
S28        35   S27 (S) S1
S29         3   S28 NOT S6:S10
S30    452183   ANIMAL? ? OR MAMMAL? ?
S31       799   (S1 OR S30) (S) S14
S32       339   (S1 OR S30) (10N) S14
S33        27   S32 (S) S3
S34        15   S33 NOT S6:S10
S35        12   RD (unique items)
S36         8   WINEASE OR WIN()EASE
S37         0   S36 AND (S1 OR S30)
S38     35274   S2(5N)S3
S39       769   S38 (S) S14
S40       616   S38(10N)S14
S41         6   S40 (10N) (S1 OR S30)
S42         4   RD (unique items)
S43        44   FLAIR(2N)EQUINE(2N)NASAL
S44         0   S43 NOT S6:S10
S45      6560   S1(5N)S2
S46         1   S45 (10N) S39
S47       165   S45 (10N) (S38 OR S14)
S48        10   S47 (10N) S22
S49         5   RD (unique items)
S50      2849   S30 (5N) S2
S51       106   S50 (10N) (S38 OR S14)
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S52          2   S51 (10N) S22
S53          2   S52 NOT S48
? show files
File   9:Business & Industry(R) Jul/1994-2005/Jul 07
         (c) 2005  The Gale Group
File  16:Gale Group PROMT(R) 1990-2005/Jul 07
         (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Jul 08
         (c)2005 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Jul 08
         (c) 2005 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2005/Jul 08
         (c) 2005 The Gale group
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42/9/2 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06697885 Supplier Number: 56012794 (THIS IS THE FULLTEXT)
CNS Expands Nasal Strip Technology to Include Horses; Company to Begin Sales in 4th Quarter.
PR Newswire, p0444
Oct 6, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 418
TEXT:
MINNEAPOLIS, Oct. 6 /PRNewswire/ -- CNS, Inc., (Nasdaq: CNXS) is developing a nasal strip that eases the breathing of horses during racing and other high-performance events, the company announced today. The strip performed as expected in an initial clinical trial at Kansas State University, and CNS plans to begin selling it during the fourth quarter of 1999.

According to the KSU test, the FLAIR(TM) equine nasal strip makes breathing easier for horses during strenuous exercise, such as racing or eventing, and can reduce exercise-induced pulmonary hemorrhage (EIPH), a common problem for horses. The company said it planned to conduct additional studies to more completely delineate the benefits of the product.

The patented, drug-free FLAIR strip, developed by two veterinarians, is attached over a horse's nasal passages, where it is held in place by a special adhesive. The strip's spring-like action **holds nasal** passages **open** to maximize air flow.

" **Horses** expend tremendous energy and effort simply to breathe during highly competitive events," said Daniel E. Cohen, chairman and chief executive officer of CNS. "Because the strip reduces the work of breathing, horses experience less physical stress during and after heavy exercise. The inventors of this device clearly have the welfare of the horse in mind."

"Development of the FLAIR equine nasal strip is part of our continued expansion of nasal strip technology and is consistent with the improved breathing benefit of Breathe Right(R) nasal strips," said Marti Morfitt, president and chief operating officer of CNS. She said the company expected that initial sales of the product would be through direct fulfillment and catalogs.

CNS, based in Minneapolis, designs, manufactures and markets consumer products, including the Breathe Right nasal strip. The Breathe Right strip improves breathing by reducing nasal airflow resistance. It can be effective for the temporary relief of nasal congestion due to colds and allergies, in eliminating or reducing snoring, and for the temporary relief of breathing difficulties due to a deviated nasal septum. The company also has entered into several agreements to develop and market certain new consumer products that are in various stages of evaluation and testing.

Some of the information contained in this news release is forward-looking and subject to certain business risks as described in the company's filings with the Securities and Exchange Commission, including its annual report as incorporated by reference in its 1998 Form 10-K.

For more information, contact Curt Swenson of Swenson NHB Investor Relations, 612-371-0000, for CNS, Inc., Daniel E. Cohen or David J. Byrd of CNS, Inc., 612-820-6696.

PUBLISHER NAME: PR Newswire Association, Inc.
COMPANY NAMES: *CNS Inc. (Minneapolis, Minnesota)
GEOGRAPHIC NAMES: *1USA (United States)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)

TICKER SYMBOLS: CNXS
SPECIAL FEATURES: COMPANY
?

Set	Items	Description
S1	231520	HORSE? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STANDARDBRED? OR (THOROUGH OR STANDARD?)()(BRED? ?) OR MAMMAL? OR ANIMAL? OR DOG? ? OR COW? ? OR CAMEL? ? OR GR?YHOUND? OR (GRAY OR GREY)()HOUND?
S2	19672	EIPH OR BLEEDING OR AIPE OR EPISTAX? OR NOSEBLEED? OR NOSE(N)BLEED??? OR COPD OR (SOFT()PALATE?)(4N)DISPLAC?
S3	1244234	EXERCISE? OR ACTIVIT??? OR MOVEMENT? OR EXERTI??? OR ATHLET? OR SPORT? OR ASPHYX?
S4	5690270	INDUCE? OR ACTIVAT? OR ACTUAT? OR CAUSE? ? OR CAUSING OR GENERAT? OR INFLUENC? OR PRODUCE? ? OR PRODUCING
S5	309719	LUNG? OR PULMON? OR BREATH? OR RESPIRAT??? OR VENTILAT??? OR INHAL? OR EXHALE? OR AIRFLOW? OR AIR()FLOW???
S6	165556	H??MORRHAG? OR EDEMA? OR BLOOD?
S7	1516203	CONDITION? OR AILMENT? OR ILLNESS OR DISORDER OR INFIRMIT? OR MALAD??? OR SYNDROM? OR DISEASE? OR IMPED?
S8	1022599	VESTIBUL?(2N)WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCISIVE?()BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA??? OR PREMAXILLA??? OR BRIDG???
S9	2929469	SUPPORT??? OR AID OR AIDS OR AIDING OR AIDING OR BRACE? ? OR BRACING OR HOLD???
S10	3334464	DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? OR LARGE?
S11	5022484	OUTSIDE? OR OUT OR OUTMOST OR OUTWARD OR OUTER? OR EXTERIOR? OR EXTERNAL? OR SUPERFICIAL? OR SUPER()FICIAL? OR OVER
S12	167724	HEMORRHAG? OR HAEMORRHAG? OR EDEMA? OR BLOOD?
S13	44	S3(5N)S4(5N)S5(5N)S12
S14	27268	S5(5N)S7
S15	45879	S2 OR S13 OR S14
S16	5163	S1 AND S15
S17	5627060	S9:S10
S18	90920	S11(10N)S8
S19	12626	S17(10N)S18
S20	3	S16 AND S19
S21	140	S1 AND S19
S22	88	S1 (S) S19
S23	59	S1 (10N) S19
S24	265537	IC=A61B?
S25	1	S23 AND S24
S26	3	S22 AND S24
S27	21	S13 AND S1
S28	3	S27 AND S11
S29	106	S3(10N)S4(10N)S5(10N)S12
S30	45913	S29 OR S2 OR S14
S31	3037	S1 (S) S30
S32	817	S31 AND S9
S33	587631	S11(10N)S9:S10
S34	19	S31 AND S33
S35	5173	S1 AND S30
S36	1	S25 AND S33
S37	38	S35 AND S33
S38	19	S37 NOT S34
S39	0	S S35 AND S18
S40	29	S35 AND S18
S41	26	S40 NOT S37
S42	39823	S8(5N)S10
S43	9	S35 AND S42
S44	8	S43 NOT (S41 OR S37)
S45	1370	S1 AND (S2 OR S29)
S46	10	S45 AND S18
S47	0	S46 NOT (S44 OR S41 OR S37)

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S48          91   S45 AND S9:S10 AND S8
S49          85   S48 NOT (S44 OR S41 OR S37)
S50          21   S49 AND S11
S51         114   S18/TI AND S1
S52          59   (S18 AND S1)/TI
S53          58   S52 NOT (S44 OR S41 OR S37 OR S50)
S54       68351   S9 (5N)S8
S55         101   (S1 AND S54)/TI
S56          97   S55 NOT (S52 OR S44 OR S41 OR S37 OR S50)
S57           1   S56 AND S30
S58         107   S1 AND S30 AND S8 AND S9 AND S11
S59          78   S58 NOT (S52 OR S44 OR S41 OR S37 OR S50)
S60           4   S59 AND S1/TI
? show files
File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200543
         (c) 2005  Thomson Derwent
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41/5/11 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015195883
WPI Acc No: 2003-256419/200325
XRAM Acc No: C03-066464
Composition and device for the treatment of exercise - induced pulmonary hemorrhage **or** ' bleeding ' **that occurs in racing** horses **that are subjected to intense** exercise
Patent Assignee: BRATTON C R (BRAT-I); TOBIN T (TOBI-I)
Inventor: BRATTON C R; TOBIN T
Number of Countries: 100 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200311344	A1	20030213	WO 2002US24588	A	20020801	200325 B
US 20040053938	A1	20040318	WO 2002US24588	A	20020801	200421
			US 2003466803	A	20030716	
AU 2002330522	A1	20030217	AU 2002330522	A	20020801	200452

Priority Applications (No Type Date): US 2001309389 P 20010801; US 2003466803 A 20030716
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200311344	A1	E	42	A61K-049/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

US 20040053938	A1	A61K-031/519	
AU 2002330522	A1	A61K-049/00	Based on patent WO 200311344

Abstract (Basic): WO 200311344 A1

NOVELTY - Method of treatment of **exercise - induced pulmonary hemorrhage** (**EIPH**) in an **equine** , by administering a composition comprising sildenafil citrate (I) or one of its derivatives, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a device for removable attachment to the head of an **equine** that is adapted to provided inhalation therapy of a preselected agent to the subject **equine** , the device comprising:

(1) bilateral elongated delivery tubes, each tube having a proximal end, a distal end and a body there between defining a longitudinal axis, the bilateral tubes being positioned relative to one another such that the body each tube is parallel along the axis;

(2) an inhalator manifold with proximal and distal ends, the distal end of the inhalator manifold being in fluid connection with the proximal ends of the delivery tubes and in fluid communication with a remote drug supply means at the proximal end of the inhalator manifold; and

(3) attachment means for removable attachment of the device to the head of the **equine** such that the longitudinal axis of each delivery tube is held in a preselected position that is parallel to the bridge of the nose of the subject **equine** 's forehead with the distal ends of the bilateral elongated delivery tubes held adjacent the **external** openings of the **nostrils**0 of **equine** .

ACTIVITY - Hemostatic. No biological data given.

MECHANISM OF ACTION - Phosphodiesterase Inhibitor.

USE - (I) is used for the treatment of **EIPH** or ' **bleeding** ' that occurs in racing **horses** that are subjected to intense exercise.

ADVANTAGE - The device of the invention allows for the uninterrupted administration of a therapeutic regimen in such a manner that the **equine** is able to maintain mobility during therapy.

pp; 42 DwgNo 0/9

Title Terms: COMPOSITION; DEVICE; TREAT; EXERCISE; INDUCE; PULMONARY; HAEMORRHAGE; BLEED; OCCUR; RACE; **HORSE** ; SUBJECT; INTENSE; EXERCISE

Derwent Class: B05; C03

International Patent Class (Main): A61K-031/519; A61K-049/00

File Segment: CPI

41/5/21 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

014367790 **Image available**

WPI Acc No: 2002-188492/200224

XRAM Acc No: C02-058235

XRPX Acc No: N02-142917

Drug delivery device for treating pulmonary disease **in** mammals **such as** horse **, comprises cup-shaped body for enclosing one external nare**

Patent Assignee: UNIV TUFTS (TUFT)

Inventor: HOFFMAN A M

Number of Countries: 095 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200205630	A2	20020124	WO 2001US21898	A	20010712	200224	B
AU 200173376	A	20020130	AU 200173376	A	20010712	200236	

Priority Applications (No Type Date): US 2000616483 A 20000714

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200205630	A2	E	18	A01K-000/00	
AU 200173376	A			A01K-000/00	Based on patent WO 200205630

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

Abstract (Basic): WO 200205630 A2

NOVELTY - A drug delivery device for a **mammal** comprises a cup-shaped body (10) for enclosing one **external** nare. The device does not extend into the **nostril** of the **mammal** .

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for preventing or treating a **respiratory condition** of a **mammal** comprising contacting one nare of the **mammal** with the device and delivering a dose of the composition through the device in a single inhaled breath of the **mammal** .

USE - For administering **inhaled** drugs to treat **pulmonary disease** , e.g. exercise intolerance, cough, and asthma-like attacks in **horses** and in other **animals** , e.g. **cow** , sheep, or goat.

ADVANTAGE - The device is compact, practical, and well-tolerated by **animals** . It does not require insertion in the nose of the **animal** to be treated. It does not enclose a second external nare of the **animal** , thus allowing the **animal** to inhale and/or exhale from the nare which is not covered by the device. It does not enclose the mouth of the

animal and covers only a small portion of the **animal** 's face, thus improving the **animal** 's tolerance of the device.

Comfort of the **animal** is enhanced by a flexible interface on the cup-shaped body. The device is easily cleaned since it does not have hard-to-reach parts. It provides versatility of delivery positions through its angled interface, thus permitting safer handling of **animals** to be treated.

The simplicity of the design allows the device to be made less expensively. The holding chamber and low-resistance valve features allow smaller flows to remove drug particles from the chamber.

DESCRIPTION OF DRAWING(S) - The figure is a diagram of a drug delivery device with a spacer holding chamber.

Interface (3)
Valve (4)
Lumen (7)
Container (8)
Cup-shaped body (10)
pp; 18 DwgNo 1/6

Title Terms: DRUG; DELIVER; DEVICE; TREAT; PULMONARY; DISEASE; **MAMMAL** ; **HORSE** ; COMPRISE; CUP; SHAPE; BODY; ENCLOSE; ONE; EXTERNAL
Derwent Class: B07; C07; P14
International Patent Class (Main): A01K-000/00
File Segment: CPI; EngPI
?

Set	Items	Description
S1	1427834	HORSE? ? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STANDARDBRED? OR (THOROUGH OR STANDARD?)()(BRED? ?) OR DOG? ? OR COW? ? OR CAMEL? ? OR GRAYHOUND? OR GREYHOUND? OR (GRAY OR GREY)()HOUND?
S2	1576023	VESTIBUL?(2N)WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCISIVE?()BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA??? OR PREMAXILLA??? OR BRIDG???
S3	8146617	SUPPORT??? OR AID OR AIDS OR AIDING OR AIDING OR BRACE? ? OR BRACING OR HOLD???
S4	6822473	DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? OR LARGE?
S5	1816752	OUTSIDE? OR OUTMOST OR OUTWARD OR OUTER? OR EXTERIOR? OR EXTERNAL? OR SUPERFICIAL? OR SUPER()FICIAL?
S6	4807129	PY=2004:2005
S7	7053260	PY=2002:2003
S8	6756718	PY=2000:2001
S9	6910304	PY=1998:1999
S10	3462693	PY=1997
S11	93	S1 AND S2 AND S3 AND S4 AND S5
S12	60	S11 NOT S6:S10
S13	46	RD (unique items)
S14	13696	S2(5N)S3
S15	206	S14 AND S1
S16	121	S15 NOT S6:S10
S17	120	S16 NOT S12
S18	66	RD (unique items)
S19	8	S18 AND S4
S20	31256	S4(5N)S2
S21	553	S14 AND S20
S22	8	S21 AND S1
S23	6	S22 NOT S19
S24	3	RD (unique items)
S25	1479	S2(10N)S3(10N)S4
S26	20	S25 AND S1
S27	12	S26 NOT (S19 OR S23 OR S12)
S28	7	RD (unique items)
S29	384320	EIPH OR BLEEDING OR AIPE OR EPISTAX? OR NOSEBLEED? OR NOSE(N)BLEED??? OR COPD OR (SOFT()PALATE?)(4N)DISPLAC? OR ((EXERCIS??? OR ASPHYX?)(3N)INDUC???(3N)PULMON?(3N)(HEMORRHAG? OR HAEMORRHAG? OR EDEMA?))
S30	9308	S1 AND S29
S31	23	S20 AND S30
S32	22	S31 NOT (S27 OR S19 OR S23 OR S12)
S33	4	S32 NOT S6:S10
S34	3	RD (unique items)
S35	377	S20 AND S29
S36	5	S30 AND S14
S37	5	S36 NOT S311
S38	4	S36 NOT S31
S39	58	S25/TI
S40	0	S39 AND S1
S41	4	S39 AND S29
S42	59	(S2 AND S3 AND S4)/TI
S43	4	S42 AND S29
S44	0	S43 NOT S41
S45	1096	PULMONARY DISEASE!
S46	128692	LUNG DISEASE
S47	129779	S45 OR S46
S48	1114	S47 AND S1
S49	1	S48 AND (S14 OR S20)

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S50     371282   LUNG DISEASE!
S51     372369   S45 OR S50
S52     239956   VETERINARY MEDICINE!
S53        213   S51 AND S52
S54          0   S53 AND (S14 OR S20)
S55     612112   S51 OR S52
S56        270   S55 AND (S14 OR S20)
S57         56   S56 AND S1
S58         21   S57 NOT S6:S10
S59         21   RD (unique items)
S60     612112   S45 OR S50 OR S52
S61        192   S1 (5N) S2 (5N) S4
S62         18   S61 AND S60
S63        143   S2(5N)S4(5N)S29
S64          8   S63 AND S60
S65          5   S64 NOT S62
? show files
File   5:Biosis Previews(R) 1969-2005/Jul W1
         (c) 2005 BIOSIS
File  34:SciSearch(R) Cited Ref Sci 1990-2005/Jul W1
         (c) 2005 Inst for Sci Info
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  73:EMBASE 1974-2005/Jul 07
         (c) 2005 Elsevier Science B.V.
File 155:MEDLINE(R) 1951-2005/Jul W1
         (c) format only 2005 The Dialog Corp.
File 144:Pascal 1973-2005/Jun W4
         (c) 2005 INIST/CNRS
File  35:Dissertation Abs Online 1861-2005/Jun
         (c) 2005 ProQuest Info&Learning
File  94:JICST-EPlus 1985-2005/May W3
         (c)2005 Japan Science and Tech Corp(JST)
File  10:AGRICOLA 70-2005/Jun
         (c) format only 2005 The Dialog Corporation
File  99:Wilson Appl. Sci & Tech Abs 1983-2005/May
         (c) 2005 The HW Wilson Co.
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Set     Items   Description
S1    1427864   HORSE? ? OR RACEHORSE? OR EQUINE? OR THOROUGHBRED? OR STAN-
            DARDBRED? OR (THOROUGH OR STANDARD?)()(BRED? ?) OR DOG? ? OR -
            COW? ? OR CAMEL? ? OR GRAYHOUND? OR GREYHOUND? OR (GRAY OR GR-
            EY)()HOUND?
S2    4188088   LUNG? ? OR PULMON? OR BREATH??? OR RESPIRAT??? OR VENTILAT-
            ??? OR INHAL????? OR EXHAL????? OR AIRFLOW? OR AIR()FLOW???
S3    1576052   VESTIBUL?(2N)WALL OR NOSTRIL? OR NASAL? OR NOSE? ? OR INCI-
            SIVE?()BONE? ? OR RHINAL? OR HEAD? ? OR MUZZLE? OR MAXILLA???
            OR PREMAXILLA??? OR BRIDG???
S4    8147589   SUPPORT??? OR AID OR AIDS OR AIDING OR AIDING OR BRACE? ? -
            OR BRACING OR HOLD???
S5    6822658   DILAT??? OR OPEN??? OR WIDEN??? OR EXPAN???? OR ENLARG??? -
            OR LARGE?
S6    1161406   OUTSIDE? OR EXTERIOR? OR EXTERNAL?
S7    4808782   PY=2004:2005
S8    7053260   PY=2002:2003
S9    6756751   PY=2000:2001
S10   6910304   PY=1998:1999
S11   3462693   PY=1997
S12     61598   S1(5N)S2
S13     31256   S3(5N)S5
S14        72   S12 AND S13
S15        41   S14 NOT S7:S11
S16        20   RD (unique items)
S17     13696   S3(5N)S4
S18       553   S13 AND S17
S19         8   S18 AND S1
S20     62534   S2 (5N) S4
S21         1   S20 AND S1 AND S13
S22     21605   S3(3N)S5
S23         8   S22(10N)S12
S24         8   S23 NOT S19
S25         4   RD (unique items)
S26         1   FLAIR (5N)S1(5N)S3
S27     64374   S2:S3 (3N)(S4 OR STRIP OR STRIPS)
S28      1103   S27 (10N) (S1 OR ANIMAL? ? OR MAMMAL? ?)
S29      3365   S2:S3(3N)(STRIP OR STRIPS)
S30       117   S29 (10N) S1
S31        64   S30 NOT S7:S11
S32        30   RD (unique items)
S33     61046   S2:S3(3N)S4
S34       259   S33 (10N) S1
S35       185   S34 NOT S7:S11
S36       185   S35 NOT (S31 OR S24)
S37       117   RD (unique items)
S38       163   S33(5N)S1
S39       123   S38 NOT S7:S11
S40        80   RD (unique items)
S41        16   S40 AND S5
S42        80   S40 NOT (S31 OR S24)
? show files
File   5:Biosis Previews(R) 1969-2005/Jul W1
         (c) 2005 BIOSIS
File  34:SciSearch(R) Cited Ref Sci 1990-2005/Jul W1
         (c) 2005 Inst for Sci Info
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  73:EMBASE 1974-2005/Jul 07
         (c) 2005 Elsevier Science B.V.
File 155:MEDLINE(R) 1951-2005/Jul W1
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(c) format only 2005 The Dialog Corp.
File 144:Pascal 1973-2005/Jun W4
(c) 2005 INIST/CNRS
File 35:Dissertation Abs Online 1861-2005/Jun
(c) 2005 ProQuest Info&Learning
File 94:JICST-EPlus 1985-2005/May W3
(c)2005 Japan Science and Tech Corp(JST)
File 10:AGRICOLA 70-2005/Jun
(c) format only 2005 The Dialog Corporation
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May
(c) 2005 The HW Wilson Co.

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Set     Items   Description
S1          2   AU=(BLACH, E? OR BLACH E?)
S2          2   AU=(CHIAPETTA, J? OR CHIAPETTA J?)
S3         10   AU='BLOCH E'
S4          2   (S1 OR S3) AND S2
File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200543
         (c) 2005  Thomson Derwent
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4/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013439449 **Image available**
WPI Acc No: 2000-611392/200058
Related WPI Acc No: 1998-583363
XRAM Acc No: C00-182891
XRPX Acc No: N00-452787

Nasal support device for facilitating air flow through nasal passages of domestic animals, includes adhesive layer for securing device to tissues, support layer and surface layer

Patent Assignee: WINEASE LLC (WINE-N); BLACH E L (BLAC-I); CHIAPETTA J R (CHIA-I)
Inventor: **BLACH E L** ; **CHIAPETTA J R** ; COHEN D E
Number of Countries: 091 Number of Patents: 016
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200053132	A2	20000914	WO 2000US5943	A	20000307	200058	B
AU 200038702	A	20000928	AU 200038702	A	20000307	200067	
US 20010016756	A1	20010823	US 97843741	A	19970421	200151	
			US 9818603	A	19980204		
			US 99264464	A	19990308		
EP 1164980	A2	20020102	EP 2000917779	A	20000307	200209	
			WO 2000US5943	A	20000307		
US 6352548	B1	20020305	US 99379425	A	19990823	200224	
BR 200008830	A	20020716	BR 20008830	A	20000307	200255	
			WO 2000US5943	A	20000307		
US 20020134379	A1	20020926	US 99379425	A	19990823	200265	
			US 200287668	A	20020301		
JP 2003523782	W	20030812	JP 2000603622	A	20000307	200355	
			WO 2000US5943	A	20000307		
NZ 514432	A	20030926	NZ 514432	A	20000307	200366	
			WO 2000US5943	A	20000307		
MX 2001009079	A1	20020901	WO 2000US5943	A	20000307	200370	
			MX 20019079	A	20010907		
US 6676681	B1	20040113	US 99165578	P	19991115	200405	
			US 2000713380	A	20001115		
US 20040133234	A1	20040708	US 97843741	A	19970421	200445	
			US 9818603	A	19980204		
			US 99264464	A	19990308		
			US 2003732022	A	20031209		
AU 771804	B2	20040401	AU 200038702	A	20000307	200455	
AU 2004201246	A1	20040429	AU 200038702	A	20000307	200457	N
			AU 2004201246	A	20040325		
US 20040193210	A1	20040930	US 97843741	A	19970421	200465	
			US 9818603	A	19980204		
			US 99264464	A	19990308		
			US 2004820084	A	20040406		
US 6823864	B2	20041130	US 97843741	A	19970421	200479	
			US 9818603	A	19980204		
			US 99264464	A	19990308		

Priority Applications (No Type Date): US 99165578 P 19991115; US 99264464 A 19990308; US 99379425 A 19990823; US 97843741 A 19970421; US 9818603 A 19980204; US 200287668 A 20020301; US 2000713380 A 20001115; US 2003732022 A 20031209; AU 2004201246 A 20040325; US 2004820084 A 20040406
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200053132	A2	E	52	A61F-005/08	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN

CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200038702	A			Based on patent WO 200053132
US 20010016756	A1		A61B-017/00	CIP of application US 97843741 CIP of application US 9818603 CIP of patent US 5913873 CIP of patent US 6033422
EP 1164980	A2 E		A61F-005/08	Based on patent WO 200053132

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

US 6352548	B1		A61M-029/00	
BR 200008830	A		A61F-005/08	Based on patent WO 200053132
US 20020134379	A1		A61M-029/00	Cont of application US 99379425 Cont of patent US 6352548
JP 2003523782	W	59	A61D-001/00	Based on patent WO 200053132
NZ 514432	A		A61F-005/08	Based on patent WO 200053132
MX 2001009079	A1		A61D-009/00	Based on patent WO 200053132
US 6676681	B1		A61M-029/00	Provisional application US 99165578
US 20040133234	A1		A61M-029/00	CIP of application US 97843741 CIP of application US 9818603 Cont of application US 99264464 CIP of patent US 5913873 CIP of patent US 6033422
AU 771804	B2		A61F-005/08	Previous Publ. patent AU 200038702 Based on patent WO 200053132
AU 2004201246	A1		A61F-005/08	Div ex application AU 200038702
US 20040193210	A1		C09D-011/00	CIP of application US 97843741 CIP of application US 9818603 Cont of application US 99264464 CIP of patent US 5913873 CIP of patent US 6033422
US 6823864	B2		A62B-009/00	CIP of application US 97843741 CIP of application US 9818603 CIP of patent US 5913873 CIP of patent US 6033422

Abstract (Basic): WO 200053132 A2

NOVELTY - A nasal support device comprises an adhesive layer for securing the device to the tissues, a support layer, and a surface layer. The surface layer includes a first transverse dimension, and a center longitudinal dimension. It also includes two lateral longitudinal dimensions on opposing sides of the center longitudinal dimension.

DETAILED DESCRIPTION - The nasal support device (NSD) (10) for supporting tissues overlying first and second nasal passages, comprises an adhesive layer (51) for securing the support device to the tissues, a support layer (12), and a surface layer (11). The surface layer is configured to include a first transverse dimension having a first transverse axis. It also includes a center longitudinal dimension having a center longitudinal axis which is orthogonal to and bisects the first transverse axis. It also includes first and second lateral longitudinal dimensions on opposing sides of the center longitudinal dimension which is greater than the first and second lateral longitudinal dimensions. The surface layer is on opposing sides of the first transverse axis being mirror images of one another.

INDEPENDENT CLAIMS are also included for:

(A) a therapeutic device comprising a therapeutic layer, and an adhesive for maintaining the device in the selected location; and

(B) a method for facilitating air flow through the nasal passages of an animal, comprising supporting a caudal apex region of a vestibular wall overlying the nasal passages of the animal.

USE - The invention facilitates air flow through the nasal passages of domestic animals, e.g. dog, cat, horse, camel. It can also be used to treat or prevent respiratory ailments in adult and young animals, e.g. foals, and calves.

ADVANTAGE - The device may be attached to the nose of the animal while performing physical activity. It reduces the severity or effects of respiratory conditions, e.g. laryngeal hemiplegia, chronic obstructive pulmonary disease, or exercise related to pathologies, e.g. myositis, dorsal displacement of the soft palate, and exercise induced pulmonary hemorrhage or bleeding.

DESCRIPTION OF DRAWING(S) - The figure shows a top view of the NSD.

NSD (10)
Surface layer (11)
Support layer (12)
Rostral (21)
Intermediate (22)
Caudal lift members (23)
Engagement extension (29)

pp; 52 DwgNo 4a/42

Title Terms: NASAL; SUPPORT; DEVICE; FACILITATE; AIR; FLOW; THROUGH; NASAL; PASSAGE; DOMESTIC; ANIMAL; ADHESIVE; LAYER; SECURE; DEVICE; TISSUE; SUPPORT; LAYER; SURFACE; LAYER

Derwent Class: D22; F07; P31; P32; P33; P34; P35

International Patent Class (Main): A61B-017/00; A61D-001/00; A61D-009/00; A61M-029/00; A62B-009/00; C09D-011/00

International Patent Class (Additional): A61F-005/08; A61F-005/56; A61F-013/12; A61G-010/00; A61M-015/00; A61M-016/00; A62B-007/00; A62B-007/10; A62B-018/00; A62B-023/02

File Segment: CPI; EngPI

4/5/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

012166451 **Image available**

WPI Acc No: 1998-583363/199849

Related WPI Acc No: 2000-611392

XRPX Acc No: N98-454460

Nasal support device for domestic mammals - includes two side pieces engaging lateral vestibular walls having rostral ends, caudal ends and rostral-poll dimensions

Patent Assignee: WINEASE LLC (WINE-N)

Inventor: **BLACH E L ; CHIAPETTA J R**

Number of Countries: 026 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9847451	A1	19981029	WO 98US7885	A	19980417	199849	B
AU 9871366	A	19981113	AU 9871366	A	19980417	199913	
US 5913873	A	19990622	US 97843741	A	19970421	199931	
US 6017357	A	20000125	US 97843741	A	19970421	200012	
			US 99250658	A	19990216		
US 6033422	A	20000307	US 97843741	A	19970421	200019	
			US 9818603	A	19980204		
EP 988005	A1	20000329	EP 98918444	A	19980417	200020	
			WO 98US7885	A	19980417		
JP 2000513621	W	20001017	JP 98546219	A	19980417	200056	
			WO 98US7885	A	19980417		

US 6203560	B1	20010320	US 97843741	A	19970421	200118
			US 99250658	A	19990216	
			US 99375816	A	19990817	
NZ 500673	A	20010525	NZ 500673	A	19980417	200132
			WO 98US7885	A	19980417	
MX 9909663	A1	20000801	MX 999663	A	19991021	200137
AU 734857	B	20010621	AU 9871366	A	19980417	200141
US 20040138698	A1	20040715	US 97843741	A	19970421	200447
			US 9818603	A	19980204	
			US 99438676	A	19991112	
			US 2003742409	A	20031219	

Priority Applications (No Type Date): US 9818603 A 19980204; US 97843741 A 19970421; US 99250658 A 19990216; US 99375816 A 19990817; US 99438676 A 19991112; US 2003742409 A 20031219

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9847451	A1	E	35	A61F-005/08	
Designated States (National): AU CA CN JP MX NZ					
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
AU 9871366	A			A61F-005/08	Based on patent WO 9847451
US 5913873	A			A61F-005/08	
US 6017357	A			A61F-005/08	Cont of application US 97843741 Cont of patent US 5913873
US 6033422	A			A61M-029/00	CIP of application US 97843741 CIP of patent US 5913873
EP 988005	A1	E		A61F-005/08	Based on patent WO 9847451
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
JP 2000513621	W		39	A61D-001/00	Based on patent WO 9847451
US 6203560	B1			A61M-029/00	Cont of application US 97843741 Cont of application US 99250658 Cont of patent US 5913873 Cont of patent US 6017357
NZ 500673	A			A61F-005/08	Based on patent WO 9847451
MX 9909663	A1			A61F-005/08	
AU 734857	B			A61F-005/08	Previous Publ. patent AU 9871366 Based on patent WO 9847451
US 20040138698	A1			A61B-017/00	CIP of application US 97843741 Cont of application US 9818603 Cont of application US 99438676 CIP of patent US 5913873 Cont of patent US 6033422

Abstract (Basic): WO 9847451 A

The nasal support device 16 comprises a support layer positioned to provide structural support to the first and second lateral vestibular wall. An engaging layer is used for securing the device to the nose of the domestic animal.

First and second side pieces engage the lateral vestibular walls. The first side piece has a rostral end, a caudal end and a first rostral-poll dimension. The second side piece has a rostral end, a caudal end and a second rostral-poll dimension. A mid-line region includes an intersection of the two side pieces. The mid-line region has a rostral end, a caudal end and a mid-line region rostral-poll dimension that is at least as great as a selected one of the first rostral-poll dimension and the second rostral poll dimension.

USE - For supporting the soft tissue structures of the nasal passages of a domestic animal, e.g. the horse, camel, and dog.
ADVANTAGE - Facilitates air flow through the nasal passages of a domestic animal. Can increase, or reduce the decrease of, nasal passage narrowing that can occur during breathing in domestic mammals.
Dwg.6/13

Title Terms: NASAL; SUPPORT; DEVICE; DOMESTIC; MAMMAL; TWO; SIDE; PIECE; ENGAGE; LATERAL; VESTIBULAR; WALL; END; CAUDAL; END; POLL; DIMENSION
Derwent Class: P14; P31; P32; P34
International Patent Class (Main): A61B-017/00; A61D-001/00; A61F-005/08; A61M-029/00
International Patent Class (Additional): A01K-013/00; A01K-029/00; A61M-015/00
File Segment: EngPI
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Set     Items   Description
S1         17   AU='BLACH E L':AU='BLACH EL'
S2         13   AU='CHIAPETTA J R':AU='CHIAPETTA JR'
S3          0   S1 AND S2 AND (HORSE? ? OR EQUINE? ? OR EIHP OR EXERCISE()-
              INDUCE? ?()PULMON?()(HEMORRHAG? OR HAEMORRHAG?))
S4          5   (S1 OR S2) AND (HORSE? ? OR EQUINE? ? OR EIPH OR EXERCISE(-
              )INDUCE? ?()PULMON?()(HEMORRHAG? OR HAEMORRHAG?))
S5          4   RD (unique items)
S6          7   S1 AND S2
S7          7   S6 NOT S5
S8          3   RD (unique items)
? show files
File   5:Biosis Previews(R) 1969-2005/Jul W1
         (c) 2005 BIOSIS
File  34:SciSearch(R) Cited Ref Sci 1990-2005/Jul W1
         (c) 2005 Inst for Sci Info
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  73:EMBASE 1974-2005/Jul 07
         (c) 2005 Elsevier Science B.V.
File 155:MEDLINE(R) 1951-2005/Jul W1
         (c) format only 2005 The Dialog Corp.
File 144:Pascal 1973-2005/Jun W4
         (c) 2005 INIST/CNRS
File  35:Dissertation Abs Online 1861-2005/Jun
         (c) 2005 ProQuest Info&Learning
File  94:JICST-EPlus 1985-2005/May W3
         (c)2005 Japan Science and Tech Corp(JST)
File  48:SPORTDiscus 1962-2005/Jan
         (c) 2005 Sport Information Resource Centre
File  10:AGRICOLA 70-2005/Jun
         (c) format only 2005 The Dialog Corporation
File  99:Wilson Appl. Sci & Tech Abs 1983-2005/May
         (c) 2005 The HW Wilson Co.
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5/5/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0006641088 BIOSIS NO.: 198987088979

CHANGES IN QUALITY OF STALLION SPERMATOZOA DURING CRYOPRESERVATION PLASMA MEMBRANE INTEGRITY AND MOTION CHARACTERISTICS

AUTHOR: **BLACH E L** (Reprint); AMANN R P; BOWEN R A; FRANTZ D
AUTHOR ADDRESS: ANIMAL REPRODUCTION LAB, COLORADO STATE UNIV, FORT COLLINS, COLO 80523, USA**USA

JOURNAL: Theriogenology 31 (2): p283-298 1989
ISSN: 0093-691X
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: Better procedures for freezing and thawing **equine** sperm are needed since variable fertility is obtained when cryopreserved sperm are used. To evaluate current methods of freezing **equine** sperm, we examined spermatozoal quality by means of two new techniques. These measured the integrity of plasma-acrosomal membranes by immunofluorescent analyses of binding of an antibody specific to the acrosome and evaluated eight parameters of spermatozoal motion using a fully automated computerized system. Five ejaculates from each of eight stallions were processed for freezing in egg yolk-lactose extender with 4% glycerol. Spermatozoal quality was assessed at four different points: at less than 15 min after collecting and before processing (Step 1); after centrifugation and just before freezing (Step 2); immediately after thawing less than 3 h after freezing (Step 3); and immediately after thawing 10 to 20 d after freezing (Step 4). Acrosome-specific monoclonal antibody detected differences ($P < 0.05$) among steps and ejactulates within stallions. All parameters of spermatozoal motion, including the percentage of motile sperm, percentage of progressively motile sperm, curvilinear velocity, straight line velocity, linearity, amplitude of lateral head displacement, and radius of the average path for circularly swimming sperm, differed ($P < 0.05$) among steps, and most of these parameters differed among ejaculates within a stallion and among stallions. For Steps 2 and 3, 62 and 37% of the sperm were motile, and 56 and 23% of all motile sperm had a curvilinear velocity of > 100 .mu.m/sec. Most damage to sperm occurred as a result of freezing-thawing, whereas centrifugation of sperm caused only minor damage.

DESCRIPTORS: AMPLITUDE LINEARITY MOTILE SPERM PERCENTAGE SPERMATOZOAL MOTION PARAMETER CURVILINEAR VELOCITY SPERMATOZOAL QUALITY VARIABLE FERTILITY MONOCLONAL ANTIBODY METHOD
DESCRIPTORS:
MAJOR CONCEPTS: Animal Husbandry--Agriculture; Cell Biology; Membranes--Cell Biology; Physiology; Reproductive System--Reproduction
BIOSYSTEMATIC NAMES: Equidae--Perissodactyla, Mammalia, Vertebrata, Chordata, Animalia
COMMON TAXONOMIC TERMS: Animals; Chordates; Mammals; Nonhuman Vertebrates ; Nonhuman Mammals; Perissodactyls; Vertebrates
CONCEPT CODES:
00530 General biology - Information, documentation, retrieval and computer applications
02506 Cytology - Animal
10054 Biochemistry methods - Proteins, peptides and amino acids
10058 Biochemistry methods - Carbohydrates
10064 Biochemistry studies - Proteins, peptides and amino acids
10068 Biochemistry studies - Carbohydrates
10508 Biophysics - Membrane phenomena

16501 Reproductive system - General and methods
16504 Reproductive system - Physiology and biochemistry
23004 Temperature - Cryobiology
26506 Animal production - Breeds and breeding
34502 Immunology - General and methods
BIOSYSTEMATIC CODES:
86145 Equidae

5/5/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0006116779 BIOSIS NO.: 198885085670
ULTRASONOGRAPHIC STUDIES ON THE REPRODUCTIVE TRACT OF MARES AFTER PARTURITION EFFECT OF INVOLUTION AND UTERINE FLUID ON PREGNANCY RATES IN MARES WITH NORMAL AND DELAYED FIRST POSTPARTUM OVULATORY CYCLES
AUTHOR: MCKINNON A O (Reprint); SQUIRES E L; HARRISON L A; **BLACH E L** ; SHIDELER R K
AUTHOR ADDRESS: COLL VETERINARY MED AND BIOMED SCI, COLORADO STATE UNIV, FORT COLLINS, CO 80523, USA**USA
JOURNAL: Journal of the American Veterinary Medical Association 192 (3): p 350-353 1988
ISSN: 0003-1488
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: During breeding of mares, ultrasonographic detection of uterine fluid accumulations in the first postpartum ovulatory period was associated with significantly decreased pregnancy rates, when compared with rates in control mares ($P < 0.005$). The previously gravid uterine horn was recognized as the larger horn, when assessed for size by ultrasonography, for a mean of 21 days (range, 15 to 25 days) after parturition. On the basis of similar measurements obtained during 3 ultrasonographic scans (5-day period), uterine involution was determined to be completed in a mean of 23 days (range, 13 to 29 days). Progestin treatment did not affect uterine size, fluid accumulation, or rate of involution after parturition. However, delaying the first postpartum ovulation with 8 days of progestin treatment significantly improved pregnancy rates ($P < 0.05$). More ($P < 0.05$) mares became pregnant (23 of 28, 82%) when ovulation occurred after day 15 in the first postpartum ovulatory period, compared with those mares that ovulated before day 15 (6 of 12, 50%). We concluded that ultrasonographic detection of uterine fluid and postpartum progestin treatment can be used to manipulate breeding strategies and to improve pregnancy rates in mares bred during the first postpartum ovulatory period.

DESCRIPTORS: **HORSE** BREEDING
DESCRIPTORS:
MAJOR CONCEPTS: Animal Husbandry--Agriculture; Biosynchronization; Physiology; Reproductive System--Reproduction
BIOSYSTEMATIC NAMES: Equidae--Perissodactyla, Mammalia, Vertebrata, Chordata, Animalia
COMMON TAXONOMIC TERMS: Animals; Chordates; Mammals; Nonhuman Vertebrates ; Nonhuman Mammals; Perissodactyls; Vertebrates
CONCEPT CODES:
06504 Radiation biology - Radiation and isotope techniques
07200 Circadian rhythms and other periodic cycles
10060 Biochemistry studies - General
15010 Blood - Other body fluids

16504 Reproductive system - Physiology and biochemistry
16506 Reproductive system - Pathology
26506 Animal production - Breeds and breeding
BIOSYSTEMATIC CODES:
86145 Equidae

5/5/3 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

08585659 PMID: 3073116
Use of a monoclonal antibody to evaluate integrity of the plasma membrane of stallion sperm.
Blach E L ; Amann R P; Bowen R A; Sawyer H R; Hermenet M J
Animal Reproduction Laboratory, Colorado State University, Fort Collins 80523.
Gamete research (UNITED STATES) Nov 1988, 21 (3) p233-41, ISSN 0148-7280 Journal Code: 7806559
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
Subfile: INDEX MEDICUS
Transmission electron microscopy was used to confirm that a monoclonal antibody (F79.3E2; class IgG1 kappa) was specifically localized to an antigen in the acrosomal ground substance of stallion sperm. This antibody was used to develop and validate an indirect immunofluorescent procedure to evaluate integrity of the plasma-acrosomal membranes of stallion sperm. The concept was that primary monoclonal antibody would be "shielded" from its acrosomal antigen by an intact plasma membrane. Conversely, sperm with damaged plasma-acrosomal membranes would exhibit green acrosomal fluorescence when viewed with an epifluorescence microscope. A lipophilic counterstain (red fluorescence) was used to insure that all sperm were visualized. Sperm in fresh-extended or frozen-thawed semen were incubated with hybridoma supernatant containing monoclonal antibody for 30 min at 37 degrees C, then a second antibody (rabbit anti-mouse IgG-FITC) was added for 30 min at 37 degrees C. Unbound antibody was removed by dilution and centrifugation. Sperm were resuspended in phosphate-buffered saline containing Evan's blue as a counterstain. All sperm fluoresced bright red, regardless of the status of cell membranes, except that in cells with damaged plasma-acrosomal membranes, the green fluorescence associated with antibody was overriding for the rostral portion. By counting fluorescent and nonfluorescent "acrosomes", the percentage of sperm with intact plasma-acrosomal membranes was easily determined. Evaluation of five mixtures of undamaged and damaged sperm by this procedure gave a correlation of 0.91 between the percentage of damaged sperm in a mixture and the percentage of sperm with a fluorescent acrosome. Intra- and interassay coefficients of variability were less than 6%.
Tags: Male; Research Support, Non-U.S. Gov't
Descriptors: *Acrosome--pathology--PA; *Spermatozoa--pathology--PA; Acrosome--immunology--IM; Animals; Antibodies, Monoclonal--diagnostic use --DU; Cats; Cattle; Cell Membrane--immunology--IM; Cell Membrane --pathology--PA; Dogs; Fluorescent Antibody Technique; **Horses** ; Microscopy, Electron; Rabbits; Rats; Sheep; Species Specificity
CAS Registry No.: 0 (Antibodies, Monoclonal)
Record Date Created: 19890616
Record Date Completed: 19890616

5/5/4 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

07175175 PMID: 3972699

Vertebral fracture, extensor hypertonia of thoracic limbs, and paralysis of pelvic limbs (Schiff-Sherrington syndrome) in an Arabian foal.

Chiapetta J R ; Baker J C; Feeney D A

Journal of the American Veterinary Medical Association (UNITED STATES) Feb 15 1985, 186 (4) p387-8, ISSN 0003-1488 Journal Code: 7503067
Publishing Model Print
Document type: Case Reports; Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
Subfile: INDEX MEDICUS

An Arabian foal, which was recumbent for 4 days, had signs of extensor rigidity of the thoracic limbs and hypotonic paralysis of the pelvic limbs. Survey radiography revealed a lesion at T15, with radiographic impression of a compression fracture or a hemivertebra. Postmortem examination revealed a fracture at T15. Clinical and pathologic findings in this case were compatible with the Schiff-Sherrington syndrome, which is characterized by thoracic limb extensor hypertonia associated with paraplegia from acute thoracolumbar trauma.

Tags: Male
Descriptors: ***Hors** e Diseases--diagnosis--DI; *Muscle Hypertonia --veterinary--VE; *Paraplegia--veterinary--VE; *Spinal Cord Compression --veterinary--VE; *Thoracic Vertebrae--injuries--IN; Animals; **Horses** ; Muscle Hypertonia--diagnosis--DI; Paraplegia--diagnosis--DI; Spinal Cord Compression--diagnosis--DI; Syndrome--veterinary--VE
Record Date Created: 19850409
Record Date Completed: 19850409
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8/5/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0015117006 BIOSIS NO.: 200500024071
Nasal support device for domestic mammals and method
AUTHOR: **Blach Edward L** (Reprint); **Chiapetta James R**
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1288 (5): Nov. 30, 2004 2004
MEDIUM: e-file
PATENT NUMBER: US 6823864 PATENT DATE GRANTED: November 30, 2004 20041130
PATENT CLASSIFICATION: 128-20024 PATENT ASSIGNEE: WinEase LLC, Eagan, MN, USA PATENT COUNTRY: USA
ISSN: 0098-1133 _(ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The present disclosure provides a device and method for facilitating air flow in the nasal passage of a domestic animal. The nasal support device (NSD) disclosed herein is useful for facilitating air flow during rest, physical exertion, respiratory ailment, etc. The NSD secures to the nose of a domestic animal to support the unsupported lateral vestibular walls of the nasal passages by lifting or stenting.
DESCRIPTORS:
MAJOR CONCEPTS: Animal Care; Equipment Apparatus Devices and Instrumentation; Methods and Techniques; Respiratory System--Respiration
BIOSYSTEMATIC NAMES: Animalia--Animalia
ORGANISMS: animal (Animalia)
ORGANISMS: PARTS ETC: nose--respiratory system
COMMON TAXONOMIC TERMS: Animals
METHODS & EQUIPMENT: method for facilitating air flow in nasal passage--therapeutic and prophylactic techniques; nasal support device--medical supplies
CONCEPT CODES:
16004 Respiratory system - Physiology and biochemistry
28002 Laboratory animals - General
BIOSYSTEMATIC CODES:
33000 Animalia

8/5/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014743780 BIOSIS NO.: 200400113486
Reusable nasal support devices for animals and methods
AUTHOR: **Blach Edward L** (Reprint); **Chiapetta James R**
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1278 (2): Jan. 13, 2004 2004
MEDIUM: e-file
PATENT NUMBER: US 6676681 PATENT DATE GRANTED: January 13, 2004 20040113
PATENT CLASSIFICATION: 606-199 PATENT ASSIGNEE: Winease LLC, Eagan, MN, USA PATENT COUNTRY: USA
ISSN: 0098-1133 _(ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: The present invention is directed to nasal support devices and

methods. In particular, the invention provides reusable nasal support devices and method for animals.

DESCRIPTORS:
MAJOR CONCEPTS: Equipment Apparatus Devices and Instrumentation; Methods and Techniques; Respiratory System--Respiration; Veterinary Medicine--Medical Sciences
BIOSYSTEMATIC NAMES: Animalia--Animalia
ORGANISMS: animal (Animalia)
COMMON TAXONOMIC TERMS: Animals
METHODS & EQUIPMENT: nasal support method--clinical techniques, therapeutic and prophylactic techniques; reusable nasal support device --medical equipment
CONCEPT CODES:
16004 Respiratory system - Physiology and biochemistry
38002 Veterinary science - General and methods
BIOSYSTEMATIC CODES:
33000 Animalia

8/5/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0013625353 BIOSIS NO.: 200200218864
Nasal support device for animals and method
AUTHOR: **Blach Edward L** (Reprint); **Chiapetta James R** ; Cohen Daniel E
AUTHOR ADDRESS: Roswell, NM, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1256 (1): Mar. 5, 2002 2002
MEDIUM: e-file
PATENT NUMBER: US 6352548 PATENT DATE GRANTED: March 05, 2002 20020305
PATENT CLASSIFICATION: 606-199 PATENT ASSIGNEE: WinEase LLC
PATENT COUNTRY: USA
ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: Devices and methods for facilitating air flow in the nasal passages of domestic animals. The devices include support devices for supporting unsupported tissues of the nasal passages which facilitate air flow during rest, physical exertion, respiratory ailment, etc. Components and methods to facilitate application of the support device to the nose of an animal are also disclosed.

DESCRIPTORS:
MAJOR CONCEPTS: Equipment, Apparatus, Devices and Instrumentation; Respiratory System--Respiration; Veterinary Medicine--Medical Sciences
METHODS & EQUIPMENT: nasal support device--medical equipment
CONCEPT CODES:
16004 Respiratory system - Physiology and biochemistry
38002 Veterinary science - General and methods
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